

# SEQUENCE LISTING

<110> Turner, C. Alexander Jr.  
Mathur, Brian  
Nehls, Michael C.  
Friedrich, Glenn  
Zambrowicz, Brian  
Sands, Arthur T.

<120> Novel Human Membrane Proteins and Polynucleotides Encoding the Same

<130> LEX-0121-USA

<150> US 60/179,001

<151> 2000-01-28

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 747

<212> DNA

<213> Homo sapiens

<400> 1

atgttaagaa	ataacaaaac	aataattatt	aagtactttc	ttaatctcat	taatggagct	60
ttcttgggttc	ttggactttt	attcatggga	tttggtgcat	ggctcttatt	agatagaaat	120
aatttttttaa	cagcttttga	tgaaaataat	cacttcatag	tacctatttc	tcaaattttg	180
attggaatgg	gatcttctac	tgttcttttt	tgtctattgg	ggtatatagg	aattcacaac	240
gaaatcagat	ggctccta	tgtgtatgca	gtattgataa	catggacctt	tgctgttcag	300
gttgactttt	cagcattcat	catcacaag	aaagaggagg	ttcagcaact	atggcatgac	360
aaaattgatt	ttgtcatttc	tgagtatgga	tctaaagata	agcctgaaga	tataaccaag	420
tggaactattc	tgaatgcctt	acagaaaaca	ttacagtgtt	gtggccaaca	taattacaca	480
gactggataa	agaataagaa	caaagaaaat	tcaggacagg	tgccatgttc	ttgcacaaag	540
tcaacttttaa	gaaaatgggt	ttgtgatgag	ccactgaatg	caacttacct	tgagggttgt	600
gaaaataaaaa	tcagtgcattg	gtataatgtt	aatgtgttaa	ccttaatcgg	aattaacttt	660
ggacttttaa	cttcagaggt	tttccaagtc	tcattaacag	tttgtttctt	caaaaacatc	720
aagaatataa	tccatgcaga	aatgtga				747

<210> 2

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2

Met	Leu	Arg	Asn	Asn	Lys	Thr	Ile	Ile	Ile	Lys	Tyr	Phe	Leu	Asn	Leu
1			5					10					15		
Ile	Asn	Gly	Ala	Phe	Leu	Val	Leu	Gly	Leu	Leu	Phe	Met	Gly	Phe	Gly
		20					25					30			
Ala	Trp	Leu	Leu	Leu	Asp	Arg	Asn	Asn	Phe	Leu	Thr	Ala	Phe	Asp	Glu
		35				40					45				
Asn	Asn	His	Phe	Ile	Val	Pro	Ile	Ser	Gln	Ile	Leu	Ile	Gly	Met	Gly
	50				55				60						
Ser	Ser	Thr	Val	Leu	Phe	Cys	Leu	Leu	Gly	Tyr	Ile	Gly	Ile	His	Asn

65					70					75				80	
Glu	Ile	Arg	Trp	Leu	Leu	Ile	Val	Tyr	Ala	Val	Leu	Ile	Thr	Trp	Thr
				85					90					95	
Phe	Ala	Val	Gln	Val	Val	Leu	Ser	Ala	Phe	Ile	Ile	Thr	Lys	Lys	Glu
			100					105					110		
Glu	Val	Gln	Gln	Leu	Trp	His	Asp	Lys	Ile	Asp	Phe	Val	Ile	Ser	Glu
		115					120					125			
Tyr	Gly	Ser	Lys	Asp	Lys	Pro	Glu	Asp	Ile	Thr	Lys	Trp	Thr	Ile	Leu
	130					135					140				
Asn	Ala	Leu	Gln	Lys	Thr	Leu	Gln	Cys	Cys	Gly	Gln	His	Asn	Tyr	Thr
145					150					155					160
Asp	Trp	Ile	Lys	Asn	Lys	Asn	Lys	Glu	Asn	Ser	Gly	Gln	Val	Pro	Cys
			165					170						175	
Ser	Cys	Thr	Lys	Ser	Thr	Leu	Arg	Lys	Trp	Phe	Cys	Asp	Glu	Pro	Leu
			180					185					190		
Asn	Ala	Thr	Tyr	Leu	Glu	Gly	Cys	Glu	Asn	Lys	Ile	Ser	Ala	Trp	Tyr
	195					200						205			
Asn	Val	Asn	Val	Leu	Thr	Leu	Ile	Gly	Ile	Asn	Phe	Gly	Leu	Leu	Thr
	210					215						220			
Ser	Glu	Val	Phe	Gln	Val	Ser	Leu	Thr	Val	Cys	Phe	Phe	Lys	Asn	Ile
225					230					235					240
Lys	Asn	Ile	Ile	His	Ala	Glu	Met								
				245											

<210> 3  
 <211> 636  
 <212> DNA  
 <213> Homo sapiens

<400> 3  
 atgttaagaa ataacaaaac aataattatt aagtactttc ttaatctcat taatggagct 60  
 ttcttggttc ttggactttt attcatggga tttggtgcat ggctcttatt agatagaaat 120  
 aatttttttaa cagcttttga tgaaaataat cacttcatag tacctatttc tcaaattttg 180  
 attggaatgg gatcttctac tgttcttttt tgtctattgg gttatatagg aattcacaac 240  
 gaaatcagat ggctcctaatt tgtgtatgca gtattgataa catggacctt tgctgttcag 300  
 gttgtacttt cagcattcat catcacaag aaagaggagt tacagtgttg tggccaacat 360  
 aattacacag actggataaa gaataagaac aaagaaaatt caggacaggt gccatgttct 420  
 tgcacaaagt caactttaag aaaatggttt tgtgatgagc cactgaatgc aacttacctt 480  
 gaggggttggtg aaaataaaat cagtgcattg tataatgtta atgtgttaac cttaatcgga 540  
 attaactttg gacttttaac ttcagaggtt ttccaagtct cattaacagt ttgtttcttc 600  
 aaaaacatca agaataataat ccatgcagaa atgtga 636

<210> 4  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 4  
 Met Leu Arg Asn Asn Lys Thr Ile Ile Ile Lys Tyr Phe Leu Asn Leu  
 1 5 10 15  
 Ile Asn Gly Ala Phe Leu Val Leu Gly Leu Leu Phe Met Gly Phe Gly  
 20 25 30  
 Ala Trp Leu Leu Leu Asp Arg Asn Asn Phe Leu Thr Ala Phe Asp Glu  
 35 40 45  
 Asn Asn His Phe Ile Val Pro Ile Ser Gln Ile Leu Ile Gly Met Gly  
 50 55 60

Ser	Ser	Thr	Val	Leu	Phe	Cys	Leu	Leu	Gly	Tyr	Ile	Gly	Ile	His	Asn
65					70					75					80
Glu	Ile	Arg	Trp	Leu	Leu	Ile	Val	Tyr	Ala	Val	Leu	Ile	Thr	Trp	Thr
				85					90					95	
Phe	Ala	Val	Gln	Val	Val	Leu	Ser	Ala	Phe	Ile	Ile	Thr	Lys	Lys	Glu
			100					105					110		
Glu	Leu	Gln	Cys	Cys	Gly	Gln	His	Asn	Tyr	Thr	Asp	Trp	Ile	Lys	Asn
		115					120					125			
Lys	Asn	Lys	Glu	Asn	Ser	Gly	Gln	Val	Pro	Cys	Ser	Cys	Thr	Lys	Ser
	130					135					140				
Thr	Leu	Arg	Lys	Trp	Phe	Cys	Asp	Glu	Pro	Leu	Asn	Ala	Thr	Tyr	Leu
145					150					155					160
Glu	Gly	Cys	Glu	Asn	Lys	Ile	Ser	Ala	Trp	Tyr	Asn	Val	Asn	Val	Leu
				165					170					175	
Thr	Leu	Ile	Gly	Ile	Asn	Phe	Gly	Leu	Leu	Thr	Ser	Glu	Val	Phe	Gln
			180					185					190		
Val	Ser	Leu	Thr	Val	Cys	Phe	Phe	Lys	Asn	Ile	Lys	Asn	Ile	Ile	His
		195					200					205			
Ala	Glu	Met													
		210													

1963-1964